

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/083443 A3

(51) International Patent Classification:
G01N 33/68 (2006.01) **G01N 33/543** (2006.01)

(21) International Application Number:
PCT/NL2005/000148

(22) International Filing Date: 1 March 2005 (01.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04075639.7 1 March 2004 (01.03.2004) EP

(71) Applicant (for all designated States except US): **STICHT-
ING SANQUIN BLOEDVOORZIENING** [NL/NL];
Plesmanlaan 125, NL-1066 CX Amsterdam (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VAN OERS,
Josephus, Wilhelmus, Alphonsus, Maria** [NL/NL];
Botenmakersstraat 67, NL-1506 TB Zaandam (NL).
HACK, Cornelis, Erik [NL/NL]; Van Dijkstraat 21,
NL-1111 ND Diemen (NL). **VAN ENGELENBURG,
Franciscus, Antonius, Cornelis** [NL/NL]; Burgemeester
Norbruislaan 105, NL-3555 EE Utrecht (NL).

(74) Agent: **WINCKELS, J.H.F.**; Johan de Wittlaan 7,
NL-2517 JR Den Haag (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW.

(81) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
9 March 2006

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: PRION IMMUNOASSAY AND SEPARATION METHOD

(57) Abstract: Immunoassay method for detecting or measuring prion protein in a sample using at least one antibody specifically binding to prion protein, and a method of separating prion protein from a prion protein containing solution using a capturing antibody specifically binding to prion protein, comprising contacting the prion protein present with a reagent capable of improving binding of the antibody to the prion protein. The reagent may be a metal compound of a prion protein binding metal, especially a copper, nickel, zinc or manganese salt or chelate. The reagent may also be an oxidation agent, especially hydrogen peroxide or a permanganate salt. The invention also provides a method of determining the nature of prion protein which is present in a sample.



WO 2005/083443 A3